

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102320\
 Data File : VX019087.D
 Acq On : 23 Oct 2020 19:30
 Operator : JC/SP
 Sample : L4457-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SUTTON-PR-2152

Quant Time: Oct 26 04:18:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Oct 26 03:21:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	39980	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	220149	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	193380	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	81344	30.55	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.83%
60) 4-Bromofluorobenzene	11.12	95	85603	29.49	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.30%
63) Toluene-d8	8.70	98	258414	30.27	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.90%

Target Compounds

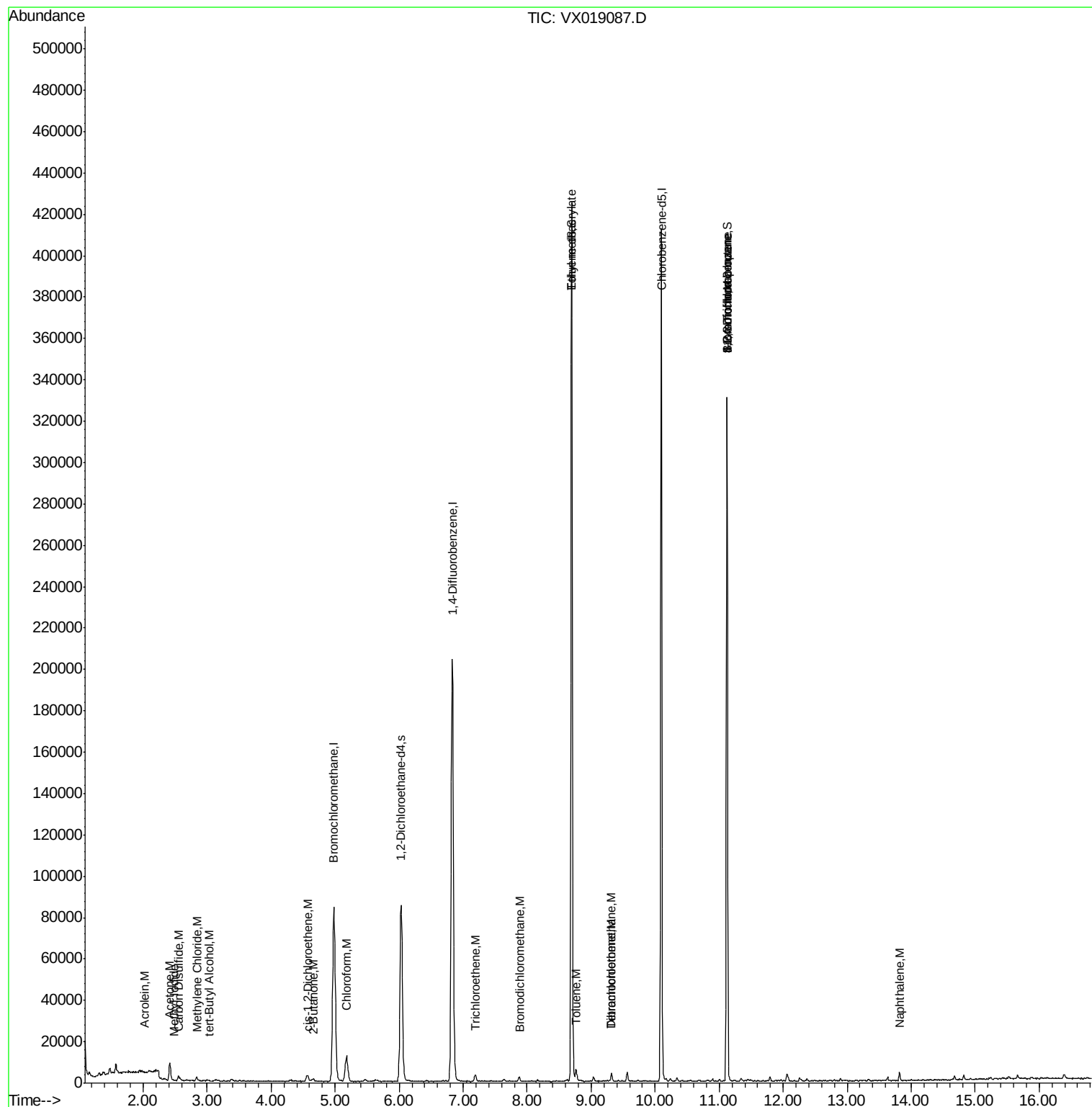
					Ovalue	
11) Methyl Iodide	2.48	142	44	7.359	ug/l #	39
13) Acrolein	2.03	56	81	0.442	ug/l	98
15) Acetone	2.42	58	2937	10.954	ug/l	88
16) Carbon Disulfide	2.56	76	2378	0.425	ug/l #	91
18) Methylene Chloride	2.84	84	809	0.352	ug/l #	85
22) cis-1,2-Dichloroethene	4.57	96	1233	0.453	ug/l #	46
23) tert-Butyl Alcohol	3.03	59	134	0.295	ug/l #	100
25) Chloroform	5.18	83	15108	3.647	ug/l	95
30) 2-Butanone	4.65	43	1674	1.353	ug/l #	72
37) Trichloroethene	7.20	130	1278	0.487	ug/l #	77
41) Bromodichloromethane	7.87	83	1368	0.420	ug/l #	92
51) Ethyl methacrylate	8.70	69	891	0.256	ug/l #	78
53) Dibromochloromethane	9.32	129	613	0.231	ug/l #	11
56) Bromoform	11.12	173	582	0.314	ug/l #	1
61) Tetrachloroethene	9.32	164	688	0.300	ug/l #	82
62) Toluene	8.77	91	3506	0.345	ug/l	98
72) 1,2,3-Trichloropropane	11.12	75	43628	15.421	ug/l	36
77) t-1,4-Dichloro-2-butene	11.12	75	43628	38.830	ug/l #	16
91) Naphthalene	13.82	128	2407	0.224	ug/l	96

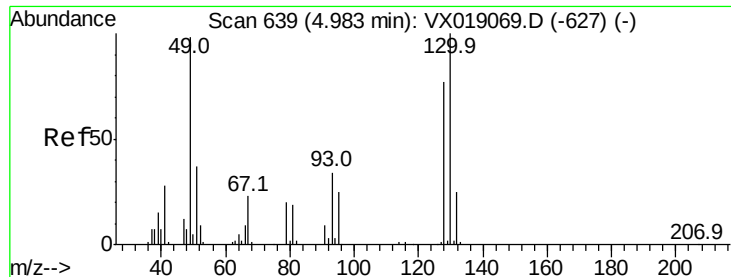
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Oct 26 03:21:29 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 639

Delta R.T. -0.00 min

Lab File: VX019087.D

Acq: 23 Oct 2020 19:30

Instrument :

MSVOA_X

ClientSampleId :

SUTTON-PR-2152

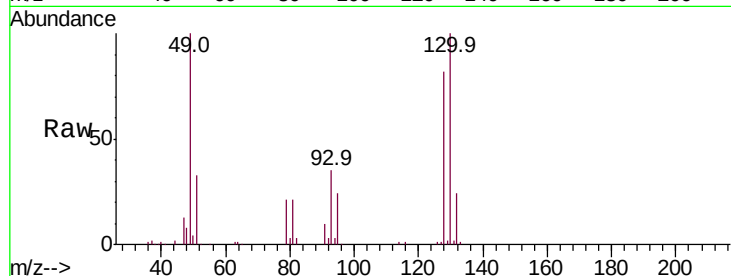
Tot Ion:128 Resp: 39980

Ion Ratio Lower Upper

128 100

49 126.5 0.0 318.8

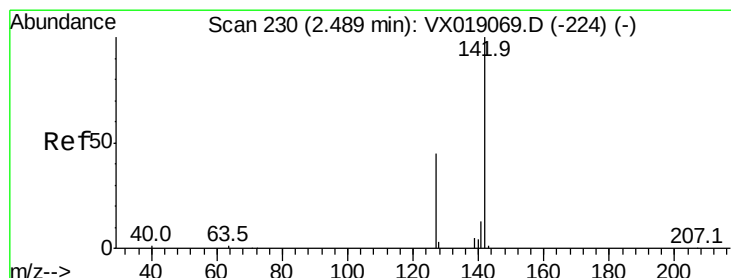
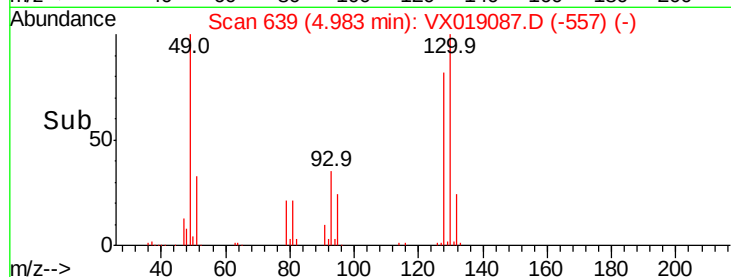
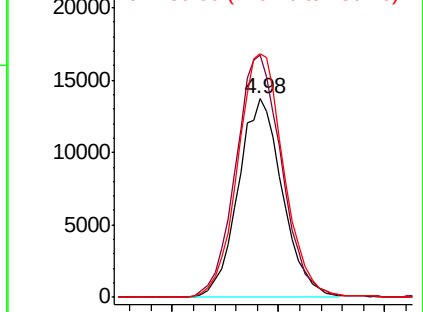
130 127.9 0.0 321.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#11

Methyl Iodide

Concen: 7.359 ug/l

RT: 2.48 min Scan# 229

Delta R.T. -0.01 min

Lab File: VX019087.D

Acq: 23 Oct 2020 19:30

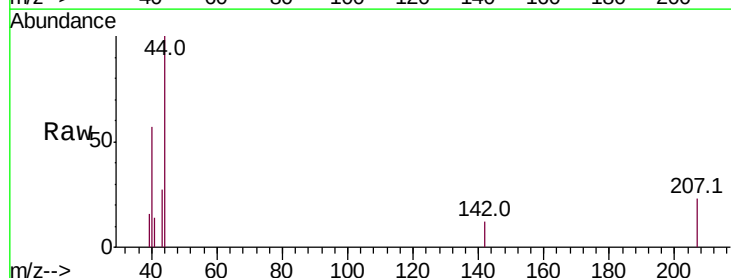
Tgt Ion:142 Resp: 44

Ion Ratio Lower Upper

142 100

127 0.0 22.6 67.7#

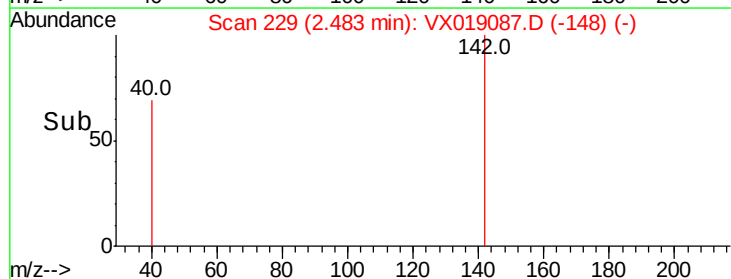
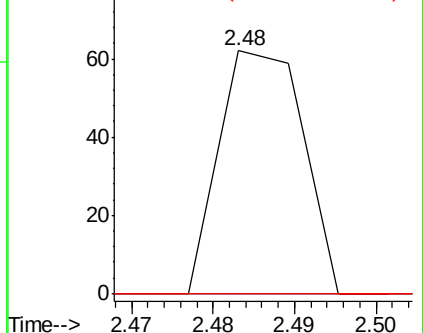
141 0.0 6.3 19.1#

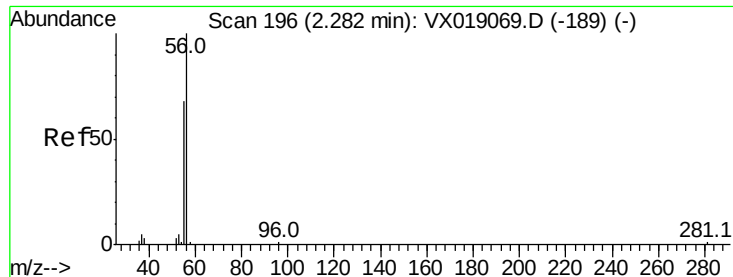


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V





#13

Acrolein

Concen: 0.442 ug/l

RT: 2.03 min Scan# 155

Delta R.T. -0.25 min

Lab File: VX019087.D

Acq: 23 Oct 2020 19:30

Instrument :

MSVOA_X

ClientSampleId :

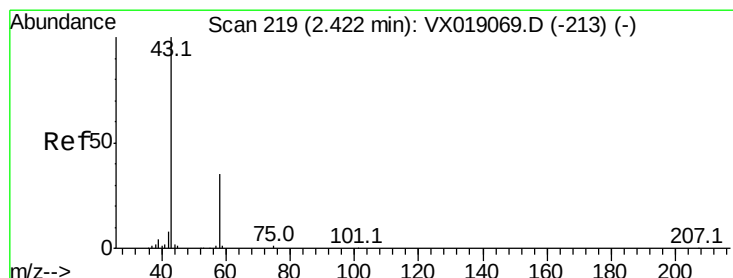
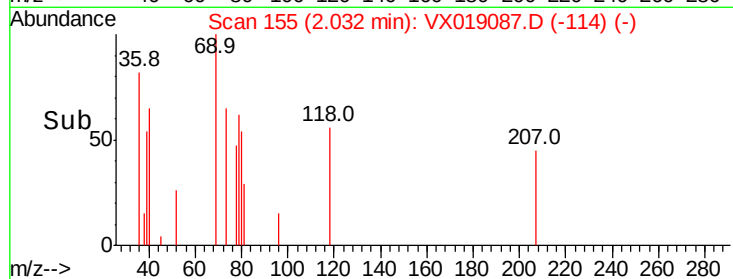
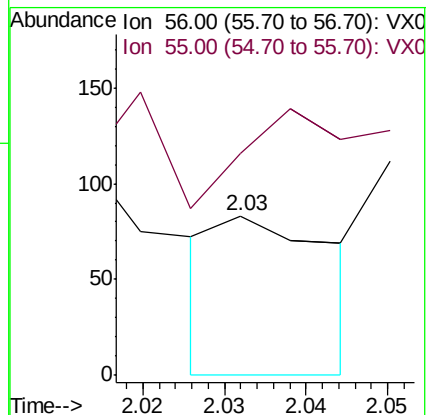
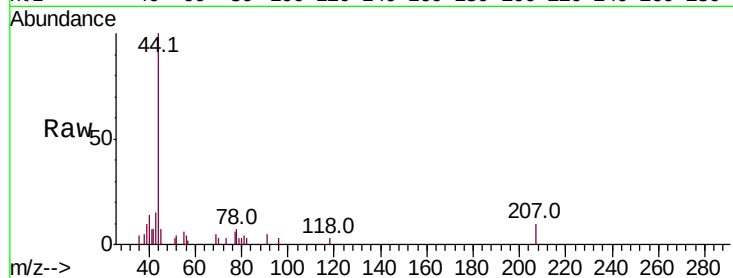
SUTTON-PR-2152

Tot Ion: 56 Resp: 81

Ion Ratio Lower Upper

56 100

55 74.1 58.2 87.2



#15

Acetone

Concen: 10.954 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX019087.D

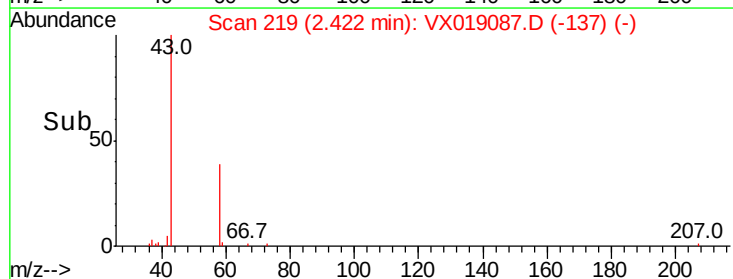
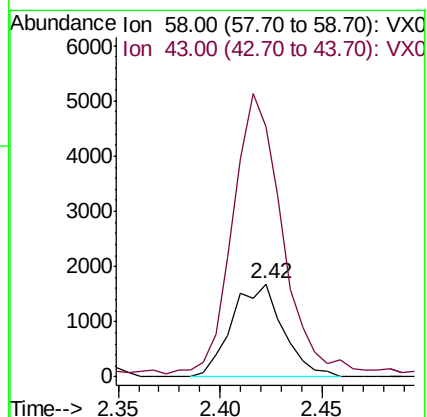
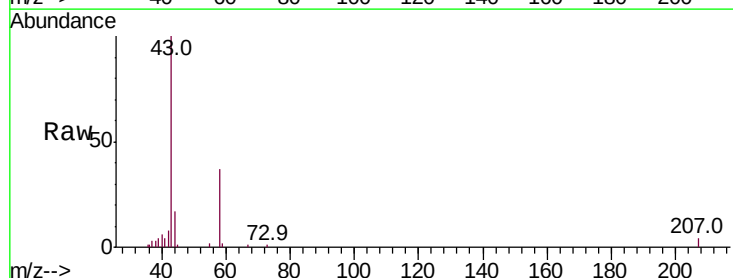
Acq: 23 Oct 2020 19:30

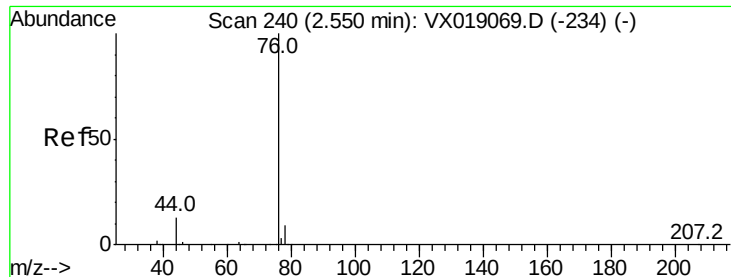
Tgt Ion: 58 Resp: 2937

Ion Ratio Lower Upper

58 100

43 261.4 226.7 340.1

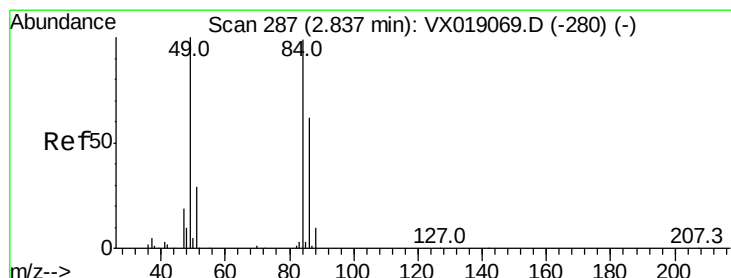
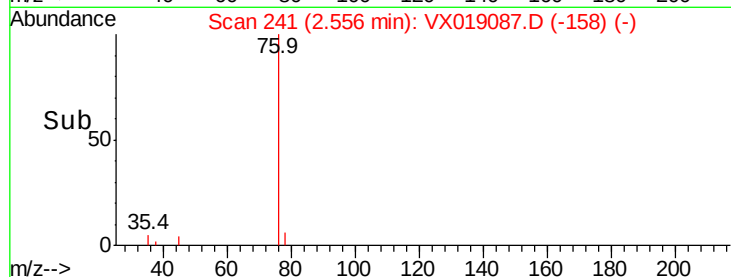
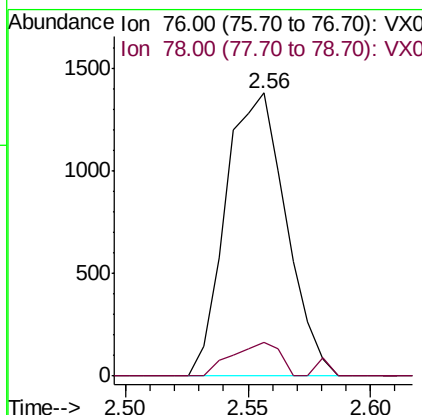
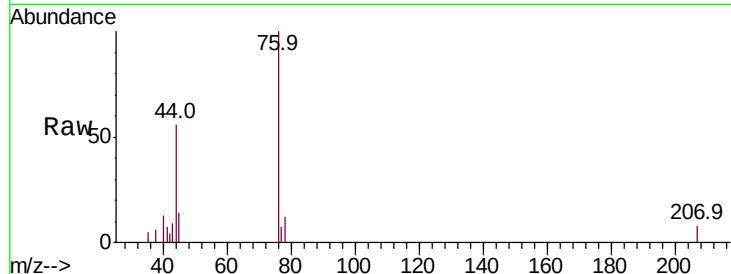




#16
Carbon Disulfide
Concen: 0.425 ug/l
RT: 2.56 min Scan# 241
Delta R.T. 0.01 min
Lab File: VX019087.D
Acq: 23 Oct 2020 19:30

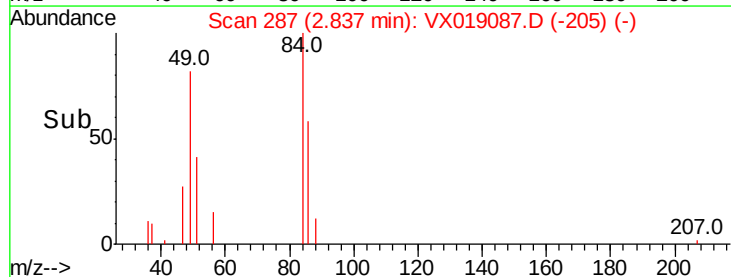
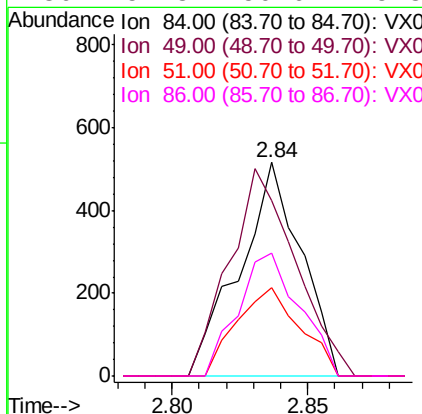
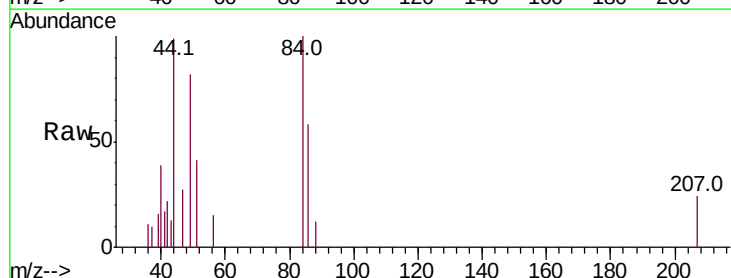
Instrument :
MSVOA_X
ClientSampleId :
SUTTON-PR-2152

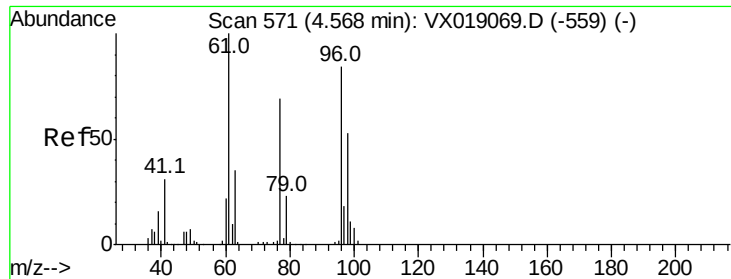
Tot Ion: 76 Resp: 2378
Ion Ratio Lower Upper
76 100
78 12.2 7.2 10.8#



#18
Methylene Chloride
Concen: 0.352 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX019087.D
Acq: 23 Oct 2020 19:30

Tgt Ion: 84 Resp: 809
Ion Ratio Lower Upper
84 100
49 82.4 80.9 121.3
51 41.3 23.8 35.6#
86 57.8 50.6 75.8



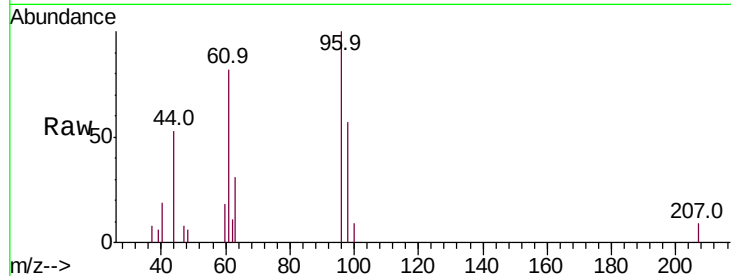


#22

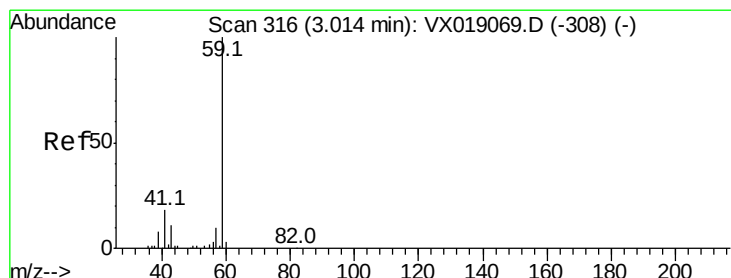
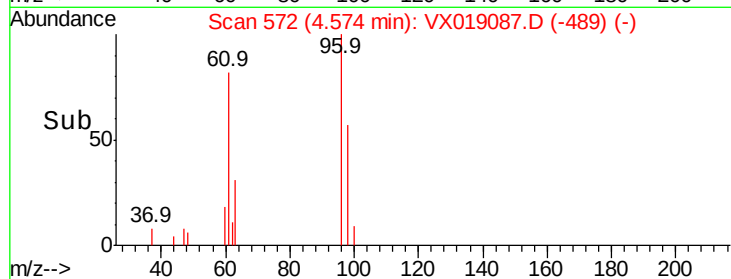
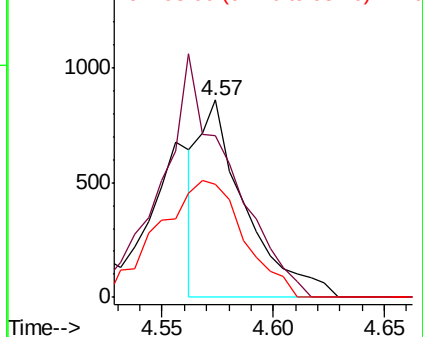
cis-1,2-Dichloroethene
 Concen: 0.453 ug/l
 RT: 4.57 min Scan# 572
 Delta R.T. 0.01 min
 Lab File: VX019087.D
 Acq: 23 Oct 2020 19:30

Instrument :
 MSVOA_X
 ClientSampleId :
 SUTTON-PR-2152

Tot Ion: 96 Resp: 1233
 Ion Ratio Lower Upper
 96 100
 61 186.7 101.9 152.9#
 98 110.1 51.3 76.9#



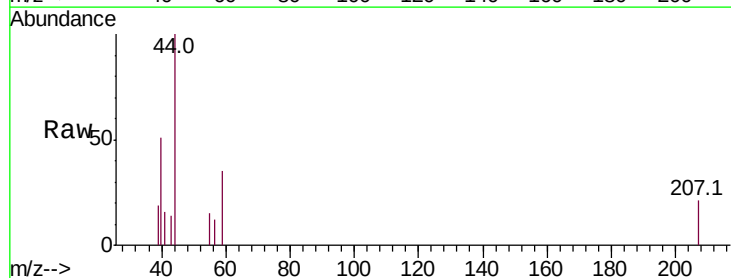
Abundance Ion 96.00 (95.70 to 96.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 98.00 (97.70 to 98.70): VX0



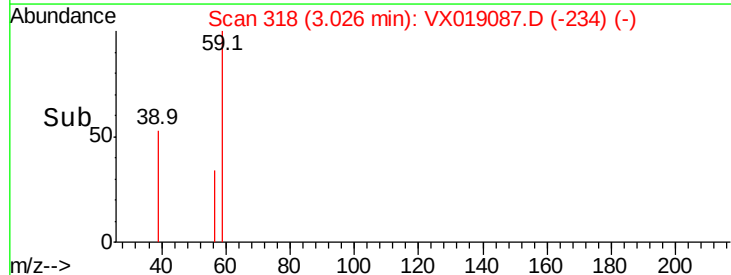
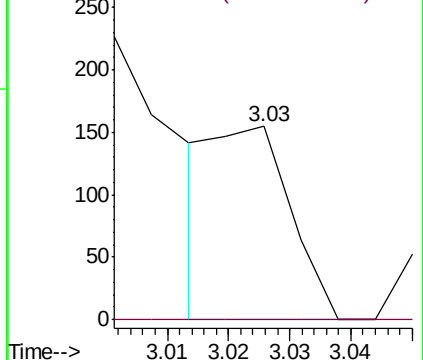
#23

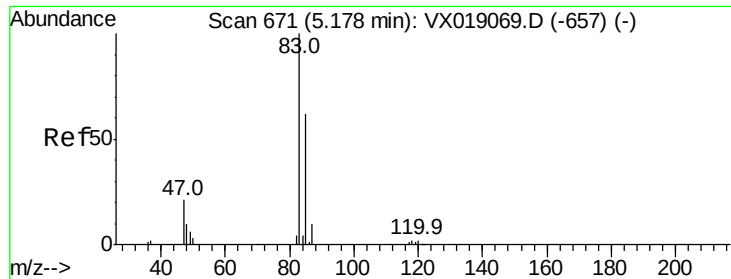
tert-Butyl Alcohol
 Concen: 0.295 ug/l
 RT: 3.03 min Scan# 318
 Delta R.T. 0.01 min
 Lab File: VX019087.D
 Acq: 23 Oct 2020 19:30

Tgt Ion: 59 Resp: 134
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.2 0.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0
 Ion 52.00 (51.70 to 52.70): VX0





#25

Chloroform

Concen: 3.647 ug/l

RT: 5.18 min Scan# 671

Delta R.T. -0.00 min

Lab File: VX019087.D

Acq: 23 Oct 2020 19:30

Instrument :

MSVOA_X

ClientSampleId :

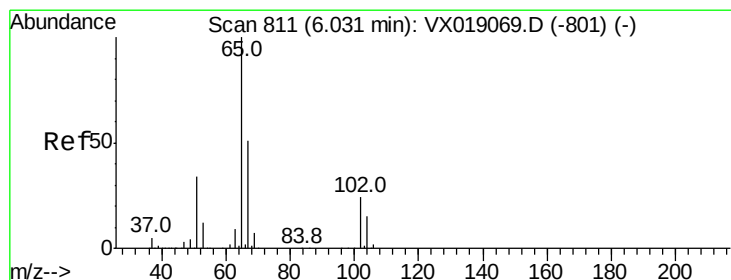
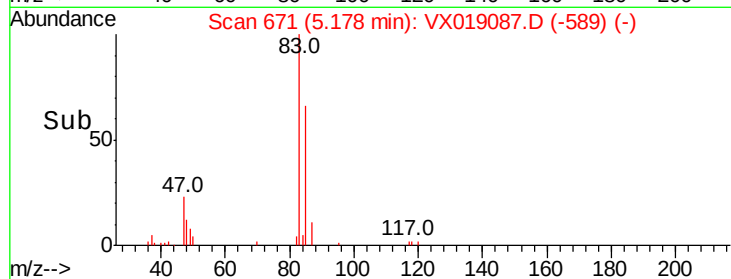
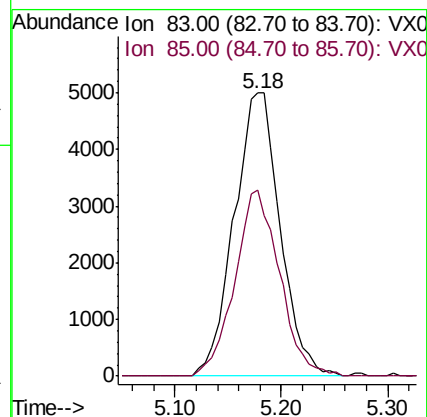
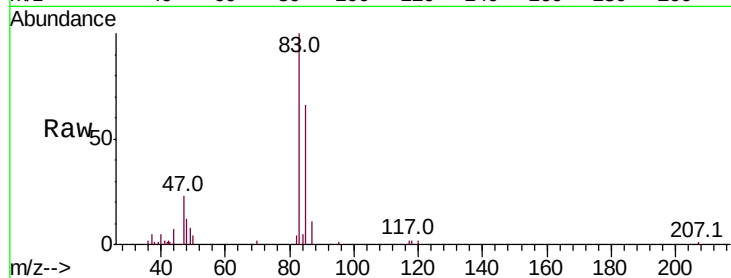
SUTTON-PR-2152

Tot Ion: 83 Resp: 15108

Ion Ratio Lower Upper

83 100

85 65.8 49.8 74.8



#27

1,2-Dichloroethane-d4

Concen: 30.547 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX019087.D

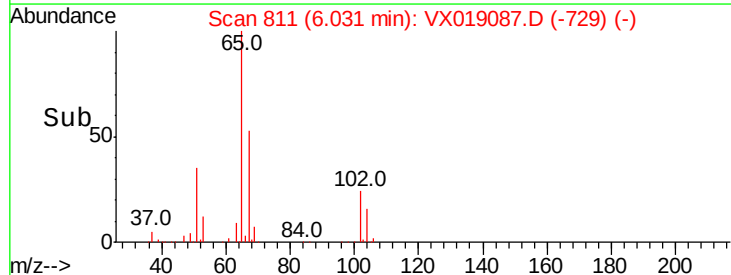
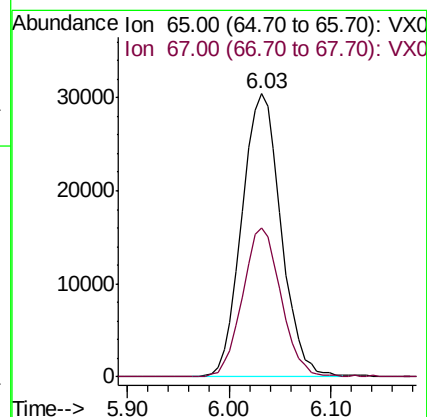
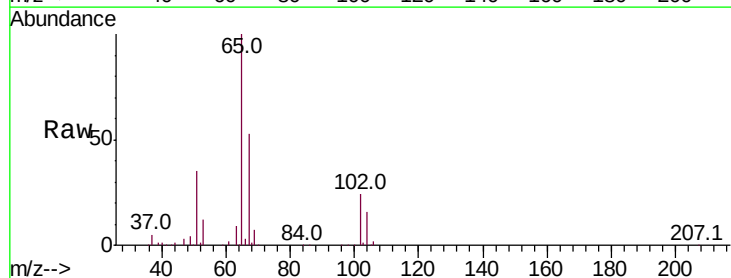
Acq: 23 Oct 2020 19:30

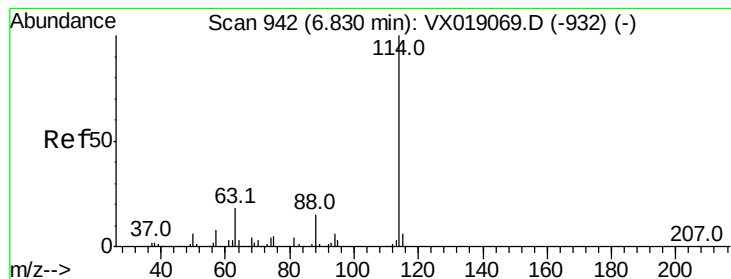
Tgt Ion: 65 Resp: 81344

Ion Ratio Lower Upper

65 100

67 51.5 42.0 63.0





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019087.D

Acq: 23 Oct 2020 19:30

Instrument :

MSVOA_X

ClientSampleId :

SUTTON-PR-2152

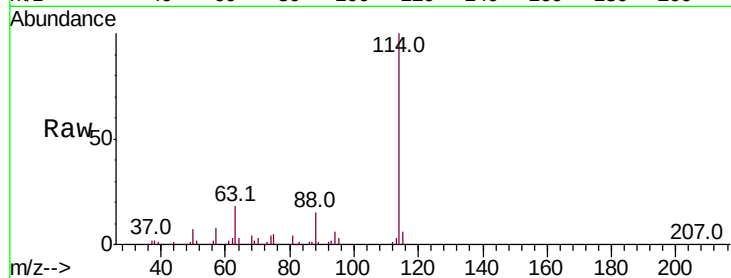
Tot Ion:114 Resp: 220149

Ion Ratio Lower Upper

114 100

63 18.0 14.6 21.8

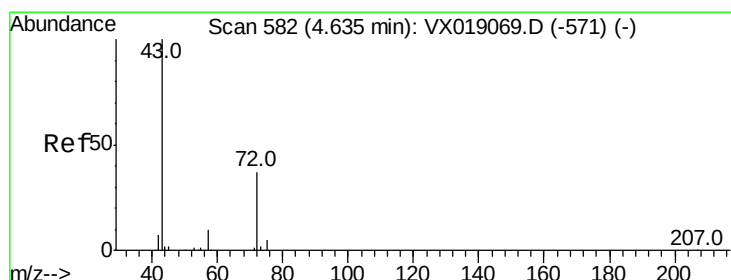
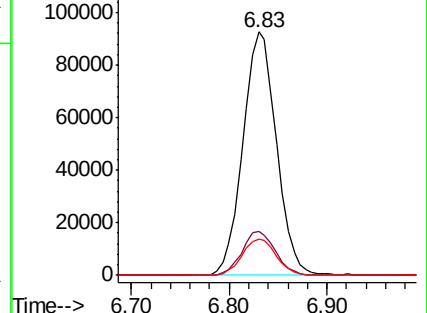
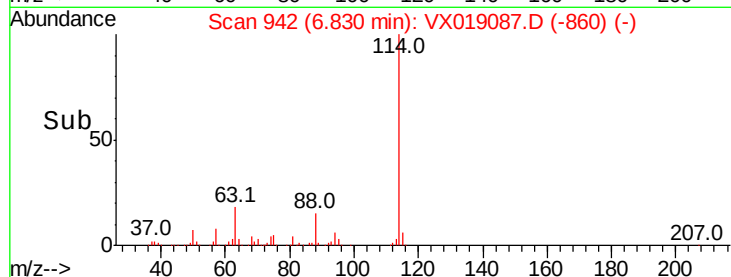
88 15.2 12.2 18.2



Abundance Ion 114.00 (113.70 to 114.70): VX0

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0



#30

2-Butanone

Concen: 1.353 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX019087.D

Acq: 23 Oct 2020 19:30

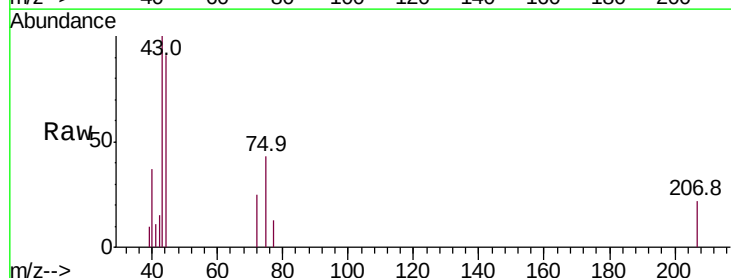
Tgt Ion: 43 Resp: 1674

Ion Ratio Lower Upper

43 100

57 4.5 7.8 11.6#

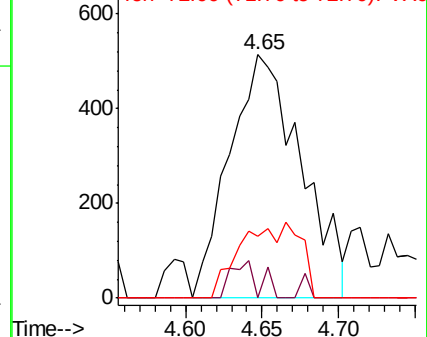
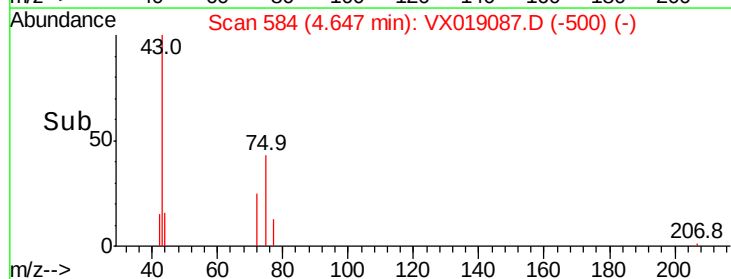
72 16.9 28.1 42.1#

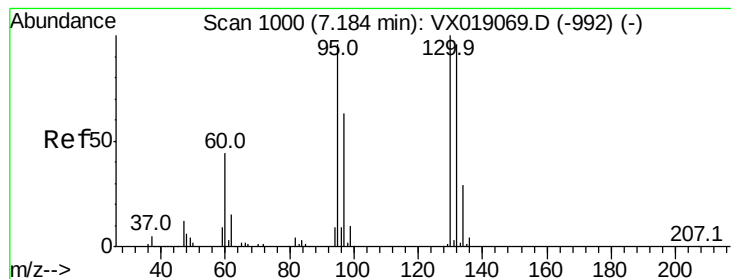


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#37

Trichloroethene

Concen: 0.487 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX019087.D

Acq: 23 Oct 2020 19:30

Instrument :

MSVOA_X

ClientSampleId :

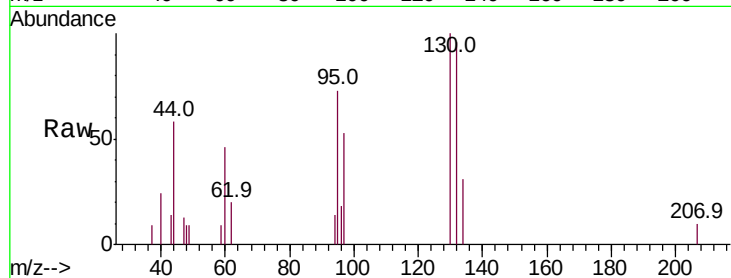
SUTTON-PR-2152

Tot Ion:130 Resp: 1278

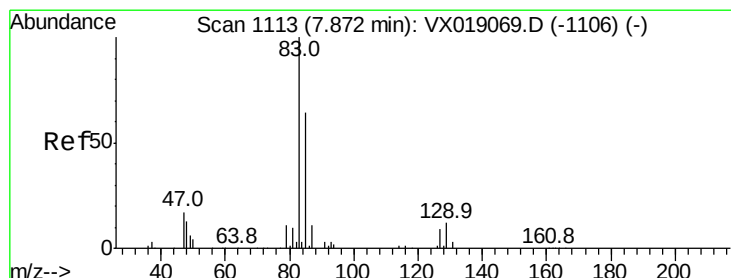
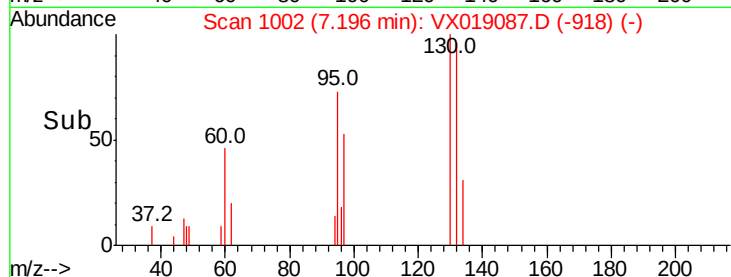
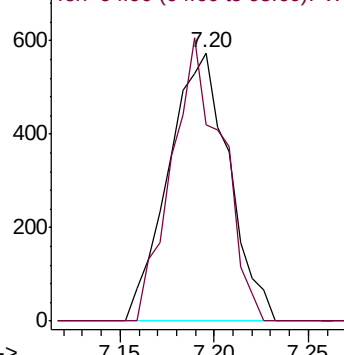
Ion Ratio Lower Upper

130 100

95 73.2 76.8 115.2#



Abundance Ion 129.90 (129.60 to 130.60): VX0



#41

Bromodichloromethane

Concen: 0.420 ug/l

RT: 7.87 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VX019087.D

Acq: 23 Oct 2020 19:30

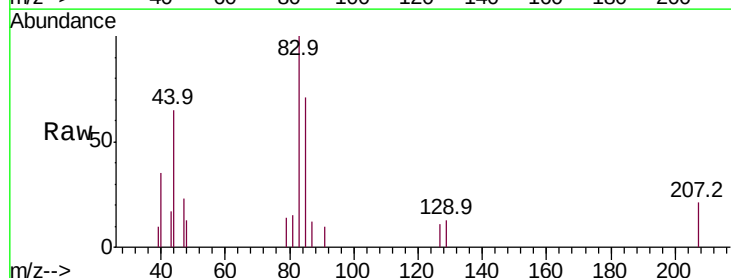
Tgt Ion: 83 Resp: 1368

Ion Ratio Lower Upper

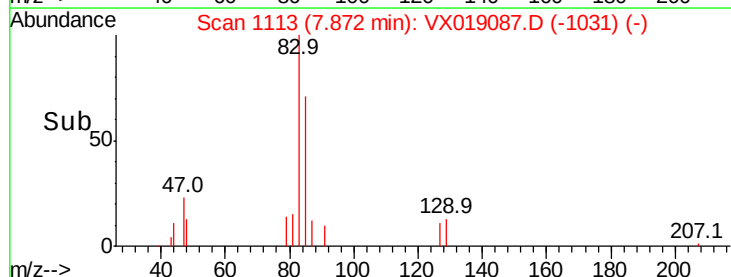
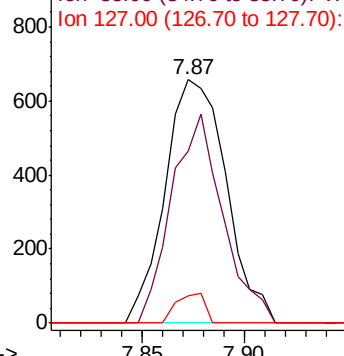
83 100

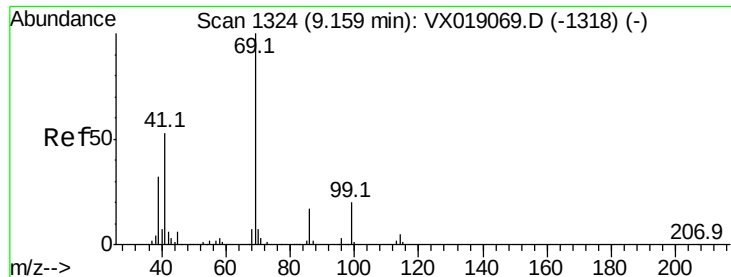
85 70.5 51.2 76.8

127 11.4 7.1 10.7#



Abundance Ion 83.00 (82.70 to 83.70): VX0





#51

Ethyl methacrylate

Concen: 0.256 ug/l

RT: 8.70 min Scan# 1249

Delta R.T. -0.46 min

Lab File: VX019087.D

Acq: 23 Oct 2020 19:30

Instrument :

MSVOA_X

ClientSampleId :

SUTTON-PR-2152

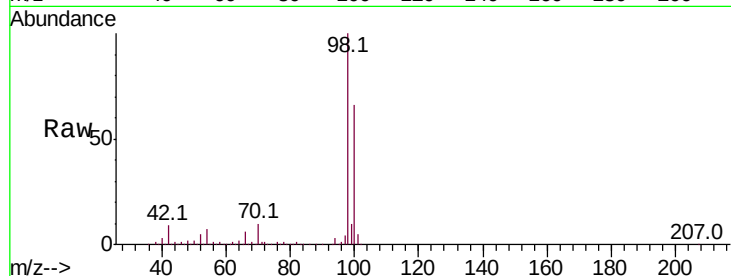
Tot Ion: 69 Resp: 891

Ion Ratio Lower Upper

69 100

41 60.2 26.5 79.4

39 9.0 16.2 48.6#



Abundance Ion 69.00 (68.70 to 69.70): VX019069.D (-1318) (-)

Ion 41.00 (40.70 to 41.70): VX019069.D (-1318) (-)

Ion 39.00 (38.70 to 39.70): VX019069.D (-1318) (-)

8.70

600

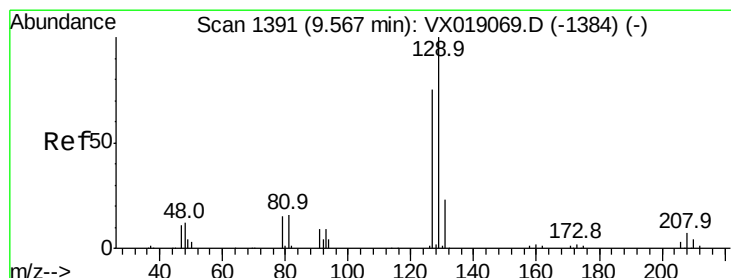
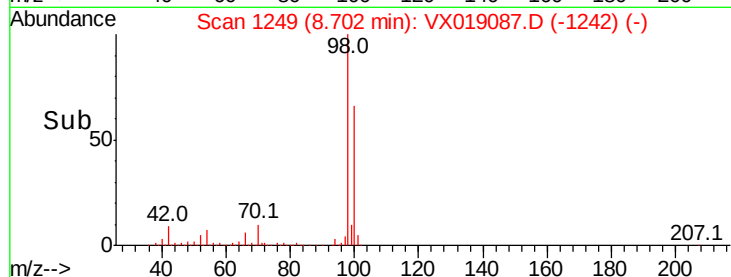
400

200

0

8.65 8.70 8.75

Time-->



#53

Dibromochloromethane

Concen: 0.231 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX019087.D

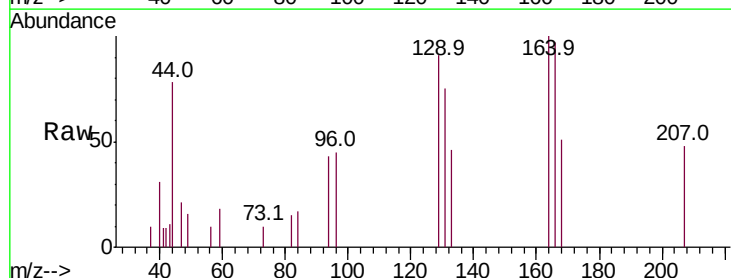
Acq: 23 Oct 2020 19:30

Tgt Ion: 129 Resp: 613

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.1#



Abundance Ion 129.00 (128.70 to 129.70): VX019069.D (-1384) (-)

Ion 127.00 (126.70 to 127.70): VX019069.D (-1384) (-)

9.32

600

500

400

300

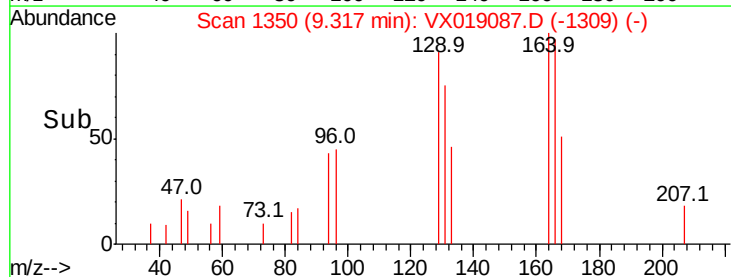
200

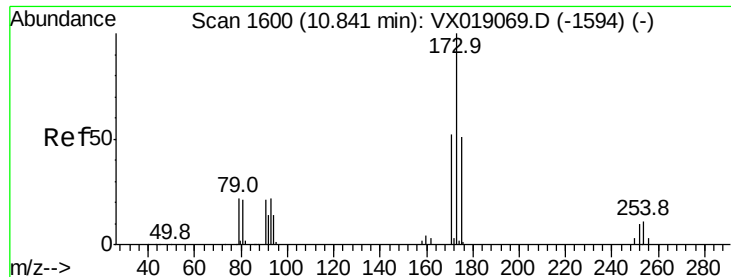
100

0

9.28 9.30 9.32 9.34

Time-->





#56

Bromoform

Concen: 0.314 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.28 min

Lab File: VX019087.D

Acq: 23 Oct 2020 19:30

Instrument :

MSVOA_X

ClientSampleId :

SUTTON-PR-2152

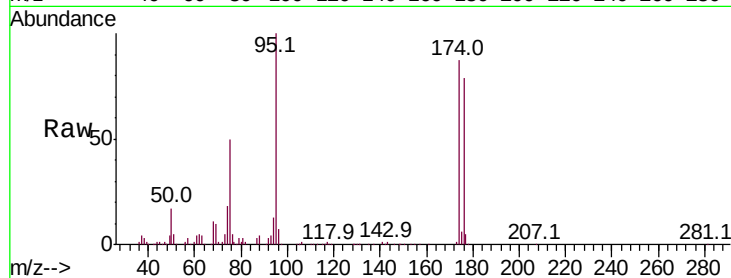
Tot Ion:173 Resp: 582

Ion Ratio Lower Upper

173 100

175 893.6 39.6 59.4#

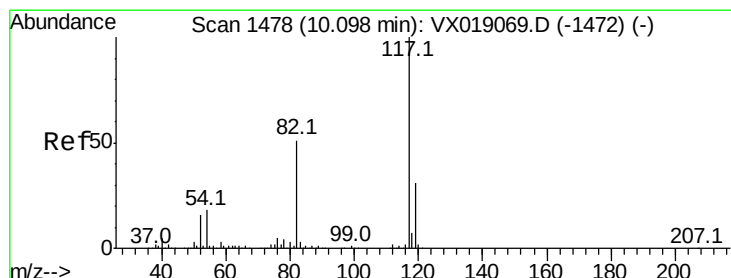
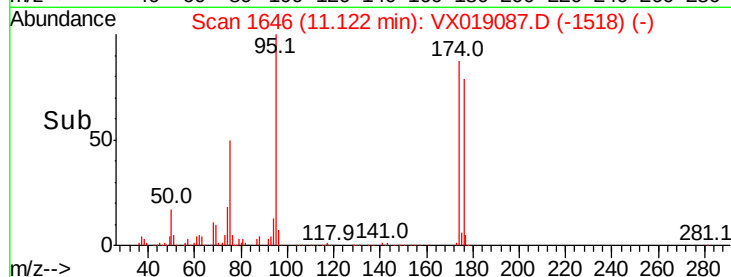
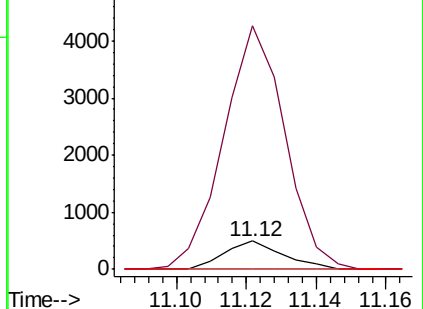
254 0.0 8.6 13.0#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019087.D

Acq: 23 Oct 2020 19:30

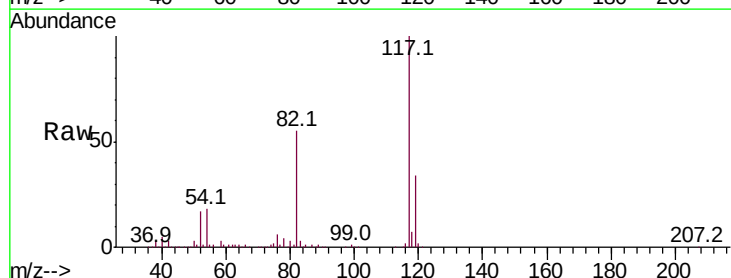
Tgt Ion:117 Resp: 193380

Ion Ratio Lower Upper

117 100

82 54.1 42.5 63.7

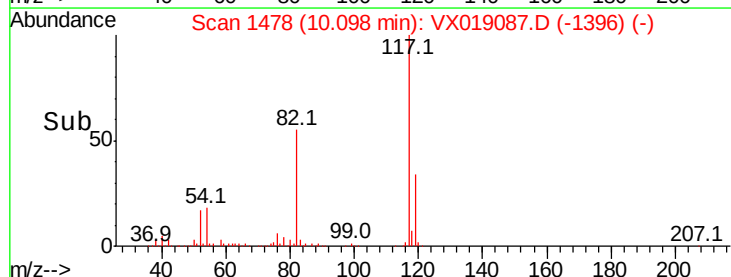
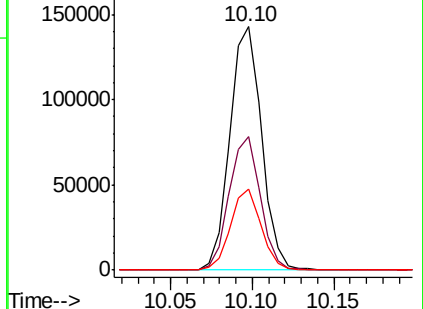
119 32.1 25.6 38.4

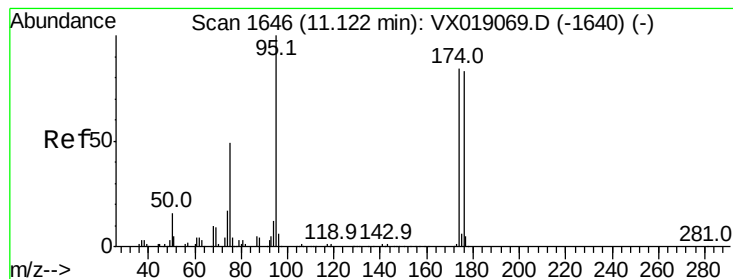


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V





#60

4-Bromofluorobenzene

Concen: 29.493 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019087.D

Acq: 23 Oct 2020 19:30

Instrument :

MSVOA_X

ClientSampleId :

SUTTON-PR-2152

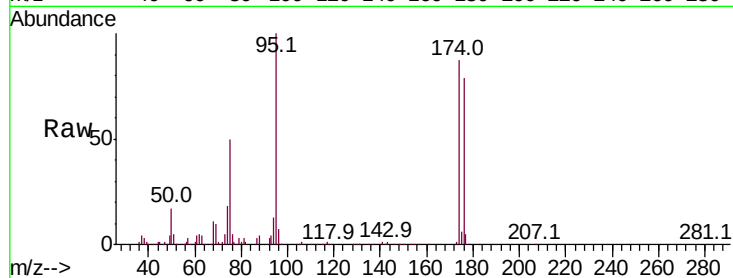
Tot Ion: 95 Resp: 85603

Ion Ratio Lower Upper

95 100

174 85.3 66.3 99.5

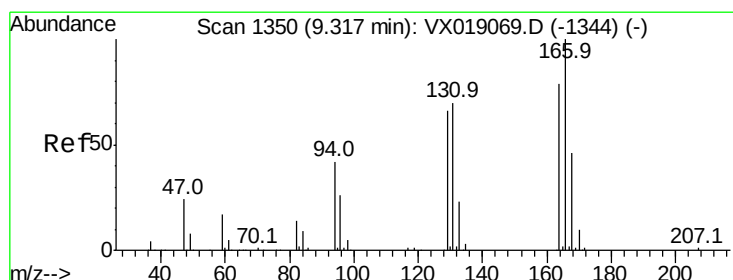
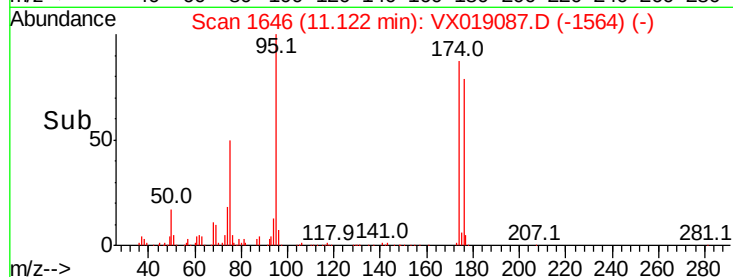
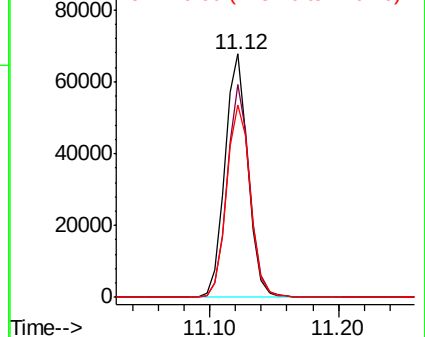
176 81.6 65.5 98.3



Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#61

Tetrachloroethene

Concen: 0.300 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX019087.D

Acq: 23 Oct 2020 19:30

Tgt Ion:164 Resp: 688

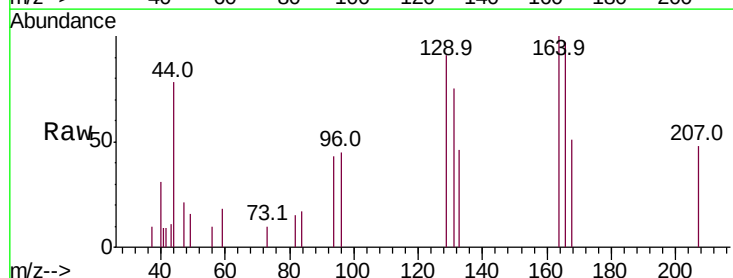
Ion Ratio Lower Upper

164 100

166 96.7 101.9 152.9#

129 91.1 67.0 100.6

131 74.8 71.1 106.7

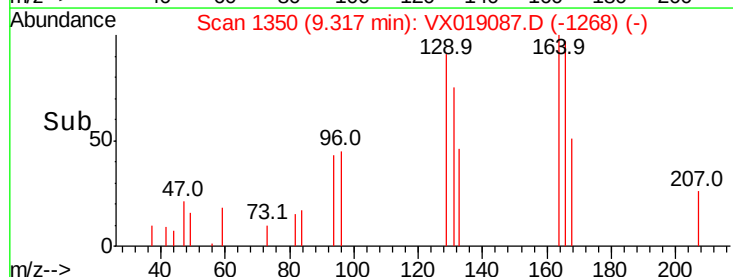
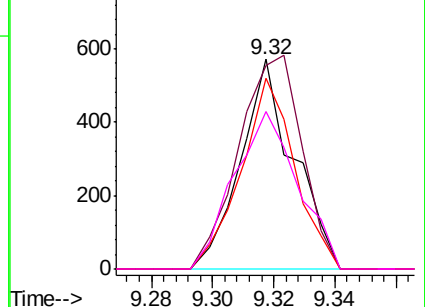


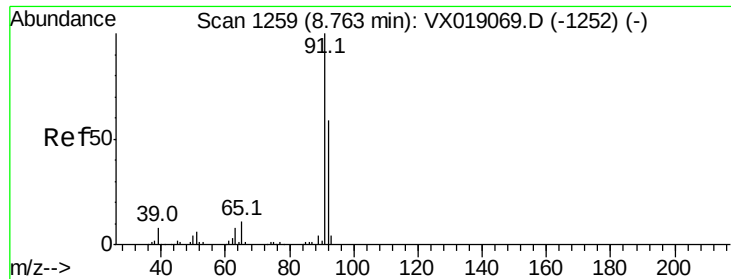
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





#62

Toluene

Concen: 0.345 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. 0.01 min

Lab File: VX019087.D

Acq: 23 Oct 2020 19:30

Instrument :

MSVOA_X

ClientSampleId :

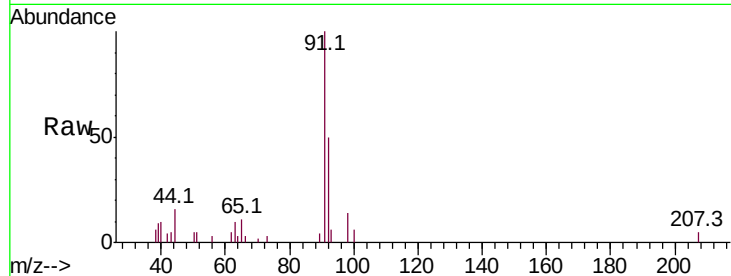
SUTTON-PR-2152

Tot Ion: 91 Resp: 3506

Ion Ratio Lower Upper

91 100

92 57.4 47.3 70.9



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

2500

2000

1500

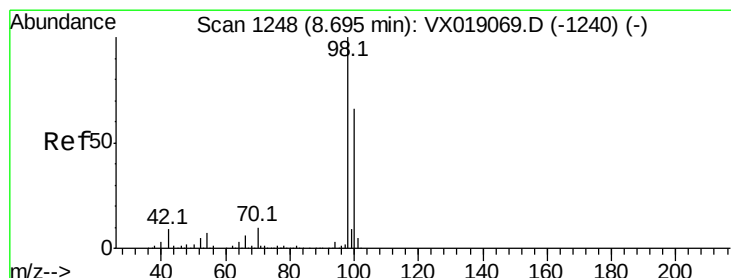
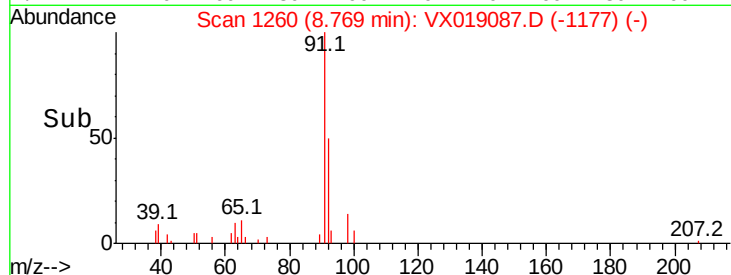
1000

500

0

8.70 8.75 8.80

Time-->



#63

Toluene-d8

Concen: 30.266 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019087.D

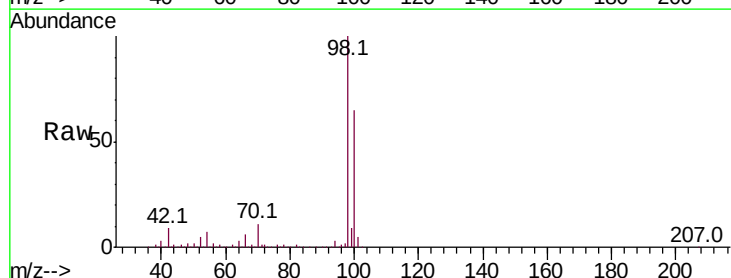
Acq: 23 Oct 2020 19:30

Tgt Ion: 98 Resp: 258414

Ion Ratio Lower Upper

98 100

100 65.1 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

200000

150000

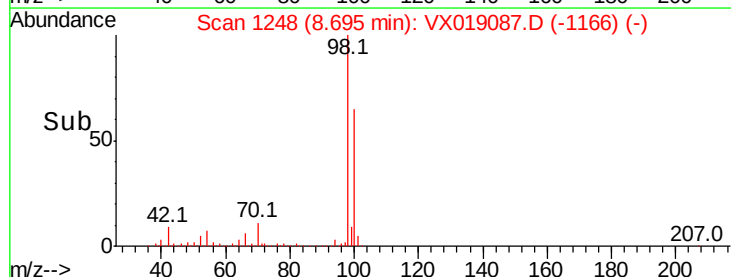
100000

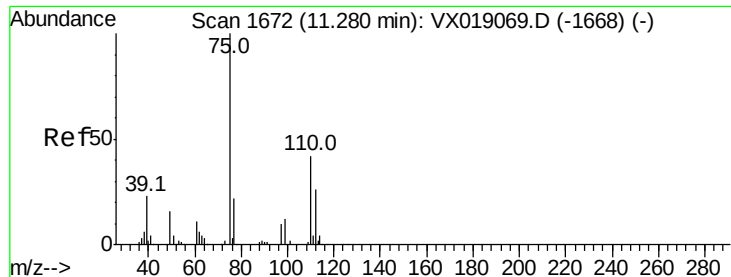
50000

0

8.60 8.65 8.70 8.75 8.80

Time-->





#72

1,2,3-Trichloropropane

Concen: 15.421 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019087.D

Acq: 23 Oct 2020 19:30

Instrument :

MSVOA_X

ClientSampleId :

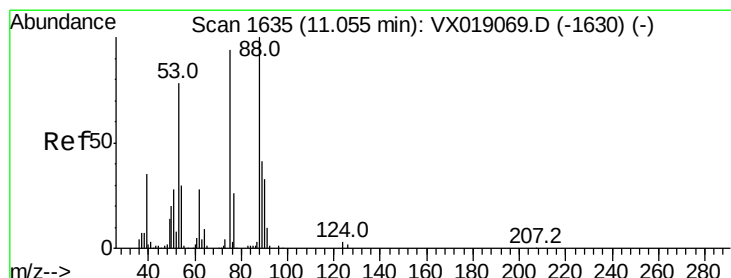
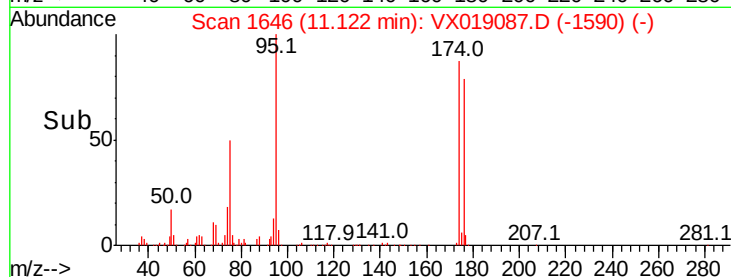
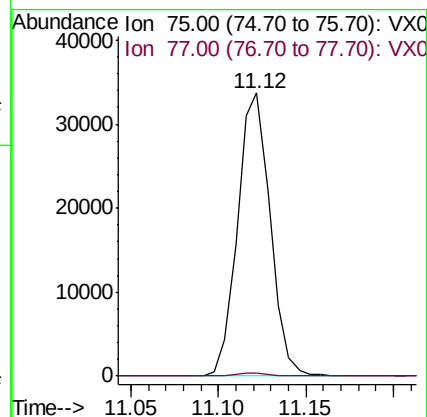
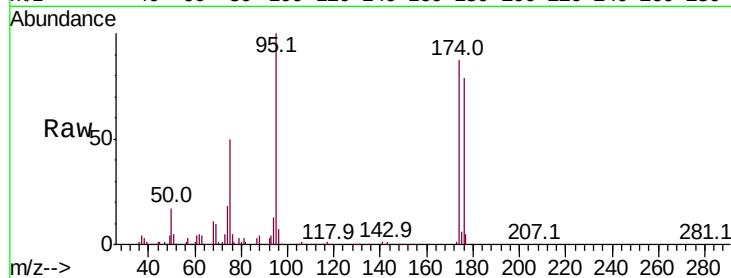
SUTTON-PR-2152

Tot Ion: 75 Resp: 43628

Ion Ratio Lower Upper

75 100

77 1.2 0.0 81.8



#77

t-1,4-Dichloro-2-butene

Concen: 38.830 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019087.D

Acq: 23 Oct 2020 19:30

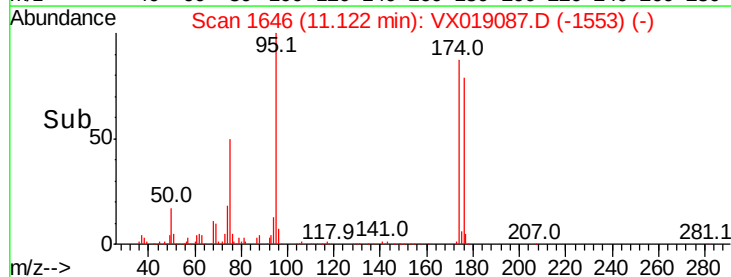
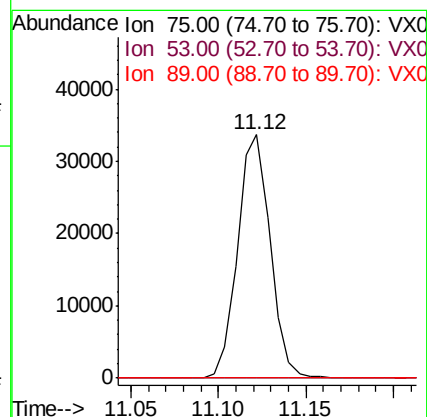
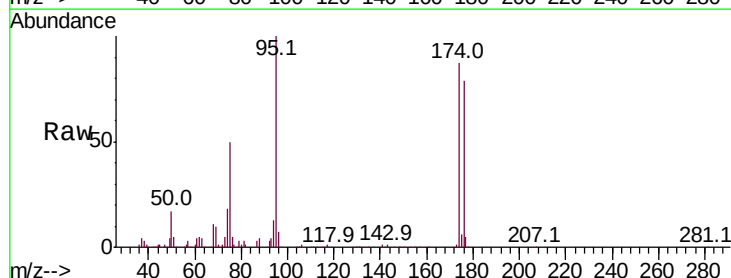
Tgt Ion: 75 Resp: 43628

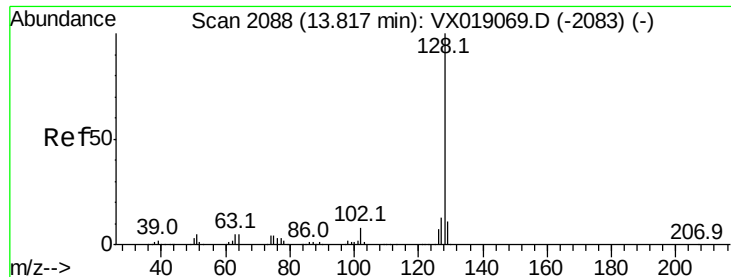
Ion Ratio Lower Upper

75 100

53 0.0 41.6 124.8#

89 0.0 21.8 65.3#





#91

Naphthalene

Concen: 0.224 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX019087.D

Acq: 23 Oct 2020 19:30

Instrument :

MSVOA_X

ClientSampleId :

SUTTON-PR-2152

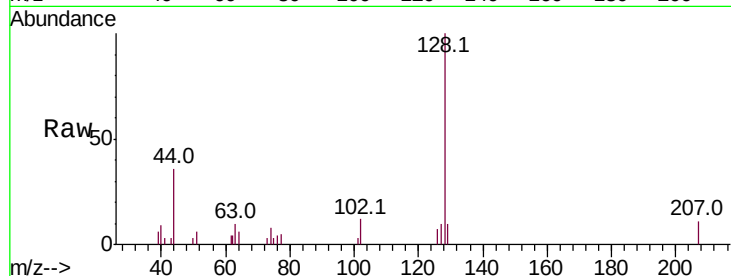
Tot Ion:128 Resp: 2407

Ion Ratio Lower Upper

128 100

127 11.4 10.6 16.0

129 10.0 8.9 13.3



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

